



"Underwater" Puppet Show

<http://www.youtube.com/watch?v=9OsmMEunKJs>

In Classic Japanese puppetry called Bunraku, the puppeteers perform in full view of the audience, wearing dark clothing. They operate the head, arms and legs of the puppet. In the video clip above, the puppeteers show how things move much slower under water because it is denser than air. The best way to move in water is by pushing and pulling through the water with our arms and legs. ~~~~~ We call that swimming. ~~~~~

Displace water



You'll need a glass of water, a bunch of pennies and a bowl.

Add water to the glass until it is full but not overflowing.

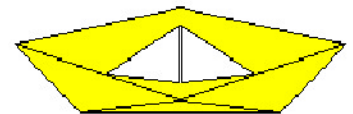
Set the glass in the bowl. Displace means to move something out of place. As you add pennies to the glass of water the pennies will displace the water. It will push the water out of the glass. Guess how many pennies will fit in the glass before the water overflows. Now gently drop pennies one by one into the glass. See how the water rises past the top of the glass. That is "surface tension." The water wants to stay together. Now use a fresh clean dry glass. This time add 1 drop of dish soap to the full glass of water and stir gently so it won't bubble. The soap makes water more slippery and keeps it from holding together. The water will overflow without rising above the glass.



Make a paper boat

http://www.mathematische-basteleien.de/paper_ship.htm#Joke

This web site has simple instructions to show you how to fold a boat out of paper.



Why does a boat float?

A boat floats because its' mass (the weight of the space it takes up) is less than that of the water it displaces

(pushes aside). To put it another way, the total density of

the boat is less than that of the water because it is a container which is

mostly full of air. As long as there are no leaks to let the water into the boat,

it will float. ~~~~~ So make a paper boat and see if it will float. ~~~~~

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